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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	4	Attorney Docket Number	LEX-0246-USA
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Complete If Known

Application Number	09/963,299
Filing Date	September 26, 2001
First Named Inventor	Abuin
Group Art Unit	1636
Examiner Name	Not Yet Assigned

APR 15 2002 JC10 2002
PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	4,190,496		Rubenstein et al	02/26/80	
	AB	4,215,051		Schroeder et al	07/29/80	
	AC	4,376,110		David et al	03/08/83	
	AD	4,631,211		Houghten	12/23/86	
	AE	4,683,202		Mullis	07/28/87	
	AF	4,689,405		Frank et al	08/25/87	
	AG	4,713,326		Dattagupta et al	12/15/87	
	AH	4,946,778		Ladner et al	08/07/90	
	AI	5,143,854		Pirrung et al	09/01/92	
	AJ	5,252,743		Barrett et al	10/12/93	
	AK	5,270,170		Schatz et al	12/14/93	
	AL	5,405,783		Pirrung et al	04/11/95	
	AM	5,424,186		Fodor et al	06/13/95	
	AN	5,432,018		Dower et al	07/11/95	
	AO	5,445,934		Fodor et al	08/29/95	
	AP	5,464,764		Capecci et al	11/07/95	
	AQ	5,556,752		Lockhart et al	09/17/96	
	AR	5,700,637		Southern	12/23/97	
	AS	5,744,305		Fodor et al	04/28/98	
	AT	5,877,397		Lonberg et al	03/02/99	
	AU	6,075,181		Kucherlapati et al	06/13/00	
	AV	6,136,566		Sands et al	10/24/00	
PP	AW	6,139,833		Burgess et al	10/31/00	
PP	AX	6,207,371		Zambrowicz et al	03/27/01	

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FOREIGN PATENT DOCUMENTS

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Substitute for form 1449B/PTO		Complete if Known	
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		Application Number	09/963,299
		Filing Date	September 26, 2001
		First Named Inventor	Abuin
		Group Art Unit	1636
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	LEX-0246-USA
10 sheets	2	of	4

EXAMINER'S FINGERPRINT OR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner's Initials PP	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	AY	Askew et al, 1989, "Molecular Recognition with Convergent Functional Groups, 6. Synthetic and Structural Studies with a Model Receptor for Nucleic Acid Components", <i>J. Am. Chem. Soc.</i> 111:1082-1090.
	AZ	Been et al, 1986, "One Binding Site Determines Sequence Specificity of Tetrahymena Pre-rRNA Self-Splicing, Trans-Splicing, and RNA Enzyme Activity", <i>Cell</i> 47:207-216.
	BA	Bird et al, 1988, "Single-Chain Antigen-Binding Proteins", <i>Science</i> 242:423-426.
	BB	Bitter et al, 1987, "Expression and Secretion Vectors for Yeast", <i>Methods in Enzymology</i> 153:516-544.
	BC	Brinster et al, 1982, "Regulation of metallothionein-thymidine kinase fusion plasmids injected into mouse eggs", <i>Nature</i> 296:39-41.
	BD	Brisson et al, 1984, "Expression of a bacterial gene in plants by using a viral vector", <i>Nature</i> 310:511-514.
	BE	Broglie et al, 1984, "Light-Regulated Expression of a Pea Ribulose-1,5-Bisphosphate Carboxylase Small Subunit Gene in Transformed Plant Cells", <i>Science</i> 224: 838-843.
	BF	Butler, 1981, "The Amplified ELISA: Principles of and Applications for the Comparative Quantitation of Class and Subclass Antibodies and the Distribution of Antibodies and Antigens in Biochemical Separates", <i>Methods in Enzymology</i> 73:482-523.
	BG	Chien et al, 1991, "The two-hybrid system: A method to identify and clone genes for proteins that interact with a protein of interest", <i>Proc. Natl. Acad. Sci. USA</i> 88:9578-9582.
	BH	Colbere-Garapin et al, 1981, "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells", <i>J. Mol. Biol.</i> 150:1-14.
	BI	Coruzzi et al, 1984, "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit of ribulose-1,5-bisphosphate carboxylase", <i>EMBO Journal</i> 3(8):1671-1679.
	BJ	Gautier et al, 1987, " α -DNA IV: α -anomeric and β -anomeric tetrathymidylates covalently linked to Intercalating oxazolopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", <i>Nucleic Acids Research</i> 15(16):6625-6641.
	BK	Gordon, 1989, "Transgenic Animals", <i>International Review of Cytology</i> , 115:171-229.
PP	BL	Greenspan et al, 1993, "Idiotypes: structure and immunogenicity", <i>FASEB Journal</i> 7:437-444.
PP	BM	Gu et al, 1994, "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting", <i>Science</i> 265:103-106.
	BN	Gurley et al, 1986, "Upstream Sequences Required for Efficient Expression of a Soybean Heat Shock Gene", <i>Mol. & Cell. Biology</i> 6(2):559-565.
	BO	Haseloff and Gerlach, 1988, "Simple RNA enzymes with new and highly specific endoribonuclease activities", <i>Nature</i> 334:585-591.
	BP	Helene, 1991, "The anti-gene strategy: control of gene expression by triplex-forming-oligonucleotides", <i>Anti-Cancer Drug Design</i> 6:569-584.
	BQ	Helene et al, 1992, "Control of Gene Expression by Triple Helix-Forming Oligonucleotides", <i>Annals N.Y. Acad. Sciences</i> 660:27-36.
PP	BR	Houghten et al, 1991, "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery", <i>Nature</i> 354:84-86.
PP	BS	Huse et al, 1989, "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", <i>Science</i> 246:1275-1281.
PP	BT	Huston et al, 1988, "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in <i>Escherichia coli</i> ", <i>Proc. Natl. Acad. Sci. USA</i> 85:5879-5883.
PP	BU	Inoue et al, 1987, "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and R Nase H", <i>FEBS Letters</i> 215(2):327-330.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/963,299	
		Filing Date	September 26, 2001	
		First Named Inventor	Abuin	
		Group Art Unit	1636	
		Examiner Name	Not Yet Assigned	
She	Patent & Trademark Office	4	Attorney Docket Number	LEX-0246-USA
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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PP	BV	Inoue et al, 1987, "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", Nucleic Acids Research 15(15):6131-6149.	
	BW	Inouye & Inouye, 1985, "Up-promoter mutations in the lpp gene of Escherichia coli", Nucleic Acids Research 13(9):3101-3110.	
	BX	Kohler & Milstein, 1975, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature 256:495-497.	
	BY	Lakso et al, 1992, "Targeted oncogene activation by site-specific recombination in transgenic mice", Proc. Natl. Acad. Sci. USA 89:6232-6236.	
	BZ	Lam et al, 1991, "A new type of synthetic peptide library for identifying ligand-binding activity", Nature 354:82-84.	
	CA	Lavitrano et al, 1989, "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs: Genetic Transformation of Mice", Cell 57:717-723.	
PP	CB	Lemaitre et al, 1987, "Specific antiviral activity of a poly(L-lysine)-conjugated oligodeoxyribonucleotide sequence complementary to vesicular stomatitis virus N protein mRNA initiation site", Proc. Natl. Acad. Sci. USA 84:648-652.	
	CC	Letsinger et al, 1989, "Cholesteryl-conjugated oligonucleotides: Synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture", Proc. Natl. Acad. Sci. USA 86:6553-6556.	
PP	CD	Lewis et al, 1989, "Automated site-directed drug design: the formation of molecular templates in primary structure generation", Proc. R. Soc. Lond. B 236:141-162.	
PP	CE	Lewis and Dean, 1989, "Automated site-directed drug design: the concept of spacer skeletons for primary structure generation", Proc. R. Soc. Lond. B 236:125-140.	
PP	CF	Lo, 1983, "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations without Tandem Insertions", Mol. Cell. Biology 3(10):1803-1814.	
PP	CG	Logan et al, 1984, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", Proc. Natl. Acad. Sci. USA 81:3655-3659.	
	CH	Lowy et al, 1980, "Isolation of Transforming DNA: Cloning the Hamster aprt Gene", Cell 22:817-823.	
PP	CI	Luo et al, 1997, "Mammalian Two-Hybrid System: A Complementary Approach to the Yeast Two-Hybrid System", BioTechniques 22(2):350-352.	
	CJ	Maher, 1992, "DNA Triple-Helix Formation: An Approach to Artificial Gene Repressors?", BioEssays 14(12):807-815.	
	CK	McKinlay et al, 1989, "Rational Design of Antiviral Agents", Annu. Rev. Pharmacol. Toxicol. 29:111-122.	
	CL	Morrison et al, 1984, "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. USA 81:6851-6855.	
	CM	Mulligan & Berg, 1981, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", Proc. Natl. Acad. Sci. USA 78(4):2072-2076.	
	CN	Neuberger et al, 1984, "Recombinant antibodies possessing novel effector functions", Nature 312:604-608.	
	CO	Nisonoff, 1991, "Idiotypes: Concepts and Applications", J. of Immunology 147:2429-2438.	
	CP	O'Hare et al, 1981, "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", Proc. Natl. Acad. Sci. USA 78(3):1527-1531.	
	CQ	Platt, K.A. et al, 1994, "Independent Regulation of Adipose Tissue-specificity and Obesity Response of the Adipsin Promoter in Transgenic Mice", The Journal of Biological Chemistry 269(46):28558-28562.	
	CR	Ripka, 1988, "Computers picture the perfect drug", New Scientist 16:54-57.	
	CS	Ruther et al, 1983, "Easy identification of cDNA clones", EMBO Journal 2(10):1791-1794.	
	CT	Santerre et al, 1984, "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", Gene 30:147-156.	
	CU	Sarin et al, 1988, "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA 85:7448-7451.	
	CV	Sarver et al, 1990, "Ribozymes as Potential Anti-HIV-1 Therapeutic Agents", Science 247:1222-1225.	
PP	CW	Shilo et al, 1981, "DNA sequences homologous to vertebrate oncogenes are conserved in Drosophila melanogaster".	

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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4 of 4

Application Number	09/963,299
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First Named Inventor	Abuin
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Examiner Name	Not Yet Assigned

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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PP	CX	Smith et al, 1983, "Molecular Engineering of the <i>Autographa californica</i> Nuclear Polyhedrosis Virus Genome: Deletion Mutations within the Polyhedrin Gene", <i>J. Virol.</i> 46(2):584-593.	
	CY	Smithies, 1985, "Insertion of DNA sequences into the human chromosomal β -globin locus by homologous recombination", <i>Nature</i> 317:230-234.	
	CZ	Songyang et al, 1993, "SH2 Domains Recognize Specific Phosphopeptide Sequences", <i>Cell</i> 72:767-778.	
	DA	Stein et al, 1988, "Physiochemical properties of phosphorothioate oligodeoxynucleotides", <i>Nucleic Acids Research</i> 16(8):3209-3221.	
	DB	Szybalska & Szybalski, 1962, "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", <i>Proc. Natl. Acad. Sci. USA</i> 48:2026-2034.	
	DC	Takamatsu et al, 1987, "Expression of bacterial chloramphenicol acetyltransferase gene in tobacco plants mediated by TMV-RNA", <i>EMBO Journal</i> 6(2):307-311.	
	DD	Takeda et al, 1985, "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", <i>Nature</i> 314:452-454.	
	DE	Thomas et al, 1987, "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells", <i>Cell</i> 51:503-512.	
	DF	Thompson et al, 1989, "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targeting in Embryonic Stem Cells", <i>Cell</i> 56:313-321.	
	DG	Van der Krol et al, 1988, "Modulation of Eukaryotic Gene Expression by Complementary RNA or DNA Sequences", <i>BioTechniques</i> 6(10):958-976.	
	DH	Van Der Putten et al, 1985, "Efficient insertion of genes into the mouse germ line via retroviral vectors", <i>Proc. Natl. Acad. Sci. USA</i> 82:6148-6152.	
	DI	Van Heeke et al, 1989, "Expression of Human Asparagine Synthetase in <i>Escherichia coli</i> ", <i>J. Biol. Chemistry</i> 264(10):5503-5509.	
	DJ	Voller et al, 1978, "Enzyme immunoassays with special reference to ELISA techniques", <i>J. Clinical Pathology</i> 31:507-520.	
	DK	Wagner et al, 1981, "Nucleotide sequence of the thymidine kinase gene of herpes simplex virus type 1", <i>Proc. Natl. Acad. Sci. USA</i> 78(3):1441-1445.	
	DL	Wagner, 1994, "Gene inhibition using antisense oligodeoxynucleotides", <i>Nature</i> 372:333-335.	
PP	DM	Ward et al, 1989, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> ", <i>Nature</i> 341:544-546.	
PP	DN	Wigler et al, 1977, "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells", <i>Cell</i> 11:223-232.	
PP	DO	Wigler et al, 1980, "Transformation of mammalian cells with an amplifiable dominant-acting gene", <i>Proc. Natl. Acad. Sci. USA</i> 77(6):3567-3570.	
PP	DP	Yamamoto et al, 1980, "Identification of a Functional Promoter in the Long Terminal Repeat of Rous Sarcoma Virus", <i>Cell</i> 22:787-797.	
PP	DQ	Zaug et al, 1984, "A Labile Phosphodiester Bond at the Ligation Junction in a Circular Intervening Sequence RNA", <i>Science</i> 224:574-578.	
PP	DR	Zaug et al, 1986, "The Tetrahymena ribozyme acts like an RNA restriction endonuclease", <i>Nature</i> 324:429-433.	
PP	DS	Zaug & Cech, 1986, "The Intervening Sequence RNA of Tetrahymena is an Enzyme", <i>Science</i> 231:470-475.	
PP	DT	Zon, 1988, "Oligonucleotide Analogues as Potential Chemotherapeutic Agents", <i>Pharmaceutical Research</i> 5(9):539-549.	

Examiner Signature

Pete Parrot

Date Considered

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